Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1 (Currently Amended). A golf ball comprising:

a core; and

a cover formed over the core, the cover composed of a thermosetting polyurethane material formed from reactants comprising ~~at least one~~ a polytetramethylene ether glycol terminated toluene diisocyanate polyurethane prepolymer with an isocyanate group content ranging from 3.75% to 7.0% and a curative blend consisting essentially of 4,4'-methylenebis-(2,6-diethyl)-aniline in an amount of 25 parts to 75 parts per 100 parts of the curative blend and a second curing agent in an amount of 25 parts to 75 parts per 100 parts of the curative blend;

wherein the cover has an aerodynamic surface geometry thereon.

2 (Original). The golf ball according to claim 1 further comprising at least one boundary layer disposed between the core and the cover.

3 (Canceled).

4 (Original). The golf ball according to claim 2 wherein the boundary layer is composed of a blend of ionomers.

12 (New). The golf ball according to claim 9 wherein weight ratio of the polytetramethylene ether glycol terminated toluene diisocyanate polyurethane prepolymer to the curative blend is preferably in the range of about 10:1 to about 30:1.

13 (New). The golf ball according to claim 9 wherein the core comprises a polybutadiene material.

14 (New). The golf ball according to claim 9 wherein the boundary layer comprises a blend of ionomers.

15 (New). The golf ball according to claim 9 wherein the golf ball has a cover durability ranking ranging from 2.89 to 3.34.

16 (New). The golf ball according to claim 9 wherein the golf ball has a hardness ranging from 40 to 75.

17 (New). The golf ball according to claim 10 wherein the 4,4'-methylenebis-(2,6-diethyl)-aniline is present in an amount of 55 parts per one hundred parts of the curative blend and the N,N'-dialkylamino-diphenyl-methane is present in an amount 45 parts per one hundred parts of the curative blend.

If the same MDEA is melted with Unilink 4200 at 175°F, the curative blend will stay as a homogenous mixture. Reacting the curative blend with the "low free" TDI-PTMEG prepolymer (6% NCO group content) will provide a gel time of 60 seconds to a golf ball cover with a 35-55 Shore D hardness. The overall solution temperature is lowered which slows the exothermic reaction thereby extending the time to react and providing a longer gel time (60 seconds) which is suitable for golf ball cover formation.

It is believed that the remaining claims are now allowable. The Applicants therefore respectfully solicit a Notice of Allowance.

July 26, 2004

Respectfully submitted,

Michael A. Catania
Registration Number 36,474
Attorney for Applicants
Callaway Golf Company
2180 Rutherford Road
Carlsbad, California 92008-8815
Telephone: 760-930-8493
Facsmile: 760-930-5019
E-mail: MikeCa@callawaygolf.com